**Construction:**
- Phase two of a three phase plan by the university to expand the sciences.
- Clever use of a crane inside of the large elliptical opening through all construction.
- Deep excavation for two-tiered basement that will house microresearch laboratories.

**Architecture:**
- Unique “open” interior curtain wall: An elliptical glass facade follows an elliptical path through the interior of the building.
- Designed for natural light.
- Large hallways for social and academic gatherings.
- Bridges the gap between a traditional brick look and sharp modern aesthetic.

**Structural:**
- 6” diameter caisson, deep foundation.
- 17” thick total slab on grade thickness (vibration cancelling).
- Post-tensioned concrete beams and girders on all floors.
- 1-way concrete slab for each floor.

**Electrical:**
- 480Y/277V, 4000A Switchgear supplies 167 panelboards with power.
- Designed peak operating load of 3530KVA.
- New transformer to have a max load of 3750KVA.
- Redundant back-up of two 750KW diesel generators.

**Mechanical:**
- Three 23,000CFM VAV AHU (Type 1 Labs)
- Two 48,000 CFM VAV AHU (Type 2 Labs, Under Ground)
- Three 21,000CFM VAV AHU (Underfloor air system)
- One 13,500 CFM VAV AHU (Mechanical building)
- Two custom, 800 ton centrifugal water chillers.
- One 2-cell 4,800GPM water tower (Roof)

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**Physical Sciences Complex**

**Basic Information**
- $80 million
- 158,063 SQ FT
- 5 above ground stories
- 2 basement levels
- 53 new laboratories
- 1208 days construction
- 5/25/2010 to 9/13/2013
- CM/At Risk, SMP

**Project Team**
- Owner: University of Maryland
- Architect: HDR Inc.
- CM Agency: Gilbane Inc.
- Structural Engineer: Hope Furrer LLC
- Civil Engineer: Goldin and Stafford LLC
- Mechanical: Denver-Elek Inc.
- Electrical: Mona Electric Group
- Fire Protection: Capitol Sprinklers Inc.

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**Gilbane**

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